CLAIMS

What is claimed is:

1	1.	A system	comprising:
-	1.	zi system,	comprising.

- 2 a bus;
- first logic to generate a multiphase encoded waveform; and
- 4 second logic coupled to the first logic to drive the multiphase encoded
- 5 waveform onto the bus.
- 1 2. The system of claim 1 wherein the first logic includes a multiphase phase lock
- 2 loop to generate multiple phases for the multiphase encoded waveform.
- 1 3. The system of claim 1 wherein second logic includes third logic to generate
- differential signal levels representing the multiphase encoded waveform.
- 1 4. The system of claim 2 wherein the first logic includes an input register, coupled
- 2 to the multiphase phase lock loop, to receive at least one data word or at least one
- 3 command/control word.
- 1 5. The system of claim 4 wherein the input register comprises a first-in-first-out
- 2 (FIFO) register.
- 1 6. The system of claim 4 wherein the input register includes a command/control
- 2 signal input, wherein a command/control signal on the command/control signal input
- 3 is to indicate whether the multiphase encoded waveform is a data structure or a
- 4 command/control structure.

1 4 3

- 1 7. The system of claim 3 wherein the bus includes at least one differential
- 2 transmission line to receive signal levels for the multiphase encoded waveform.
- 1 8. The system of claim 7 wherein second logic further comprises impedance
- 2 matching circuitry to match impedance of the second logic to the differential
- 3 transmission line.
- 1 9. The system of claim 1, further comprising third logic coupled to the bus to
- 2 receive the multiphase encoded waveform.
- 1 10. The system of claim 9 wherein the third logic includes an amplifier to receive
- 2 differential signal levels representing the multiphase encoded waveform from the bus
- 3 and extract the multiphase encoded waveform from the received differential signal
- 4 levels.
- 1 11. The system of claim 10 wherein the third logic includes a differential delayed
- 2 lock loop coupled to stretch a multiphase encoded waveform timing to a
- 3 predetermined length.
- 1 12. The system of claim 11 wherein the third logic includes a register coupled to
- 2 check data integrity of the multiphase encoded waveform.
- 1 13. An apparatus, comprising:
- a device driver having first logic to generate a multiphase encoded
- 3 waveform and second logic coupled to the first logic to drive the multiphase encoded
- 4 waveform onto a bus.

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- 1 14. The apparatus of claim 13 wherein the first logic includes a multiphase phase
- 2 lock loop to generate multiple phases for the multiphase encoded waveform.
- 1 15. The apparatus of claim 13 wherein second logic includes third logic to generate
- 2 differential signal levels representing the multiphase encoded waveform.
- 1 16. The apparatus of claim 14 wherein the first logic includes an input register,
- 2 coupled to the multiphase phase lock loop, to receive at least one data word or at least
- 3 one command/control word.
- 1 17. The apparatus of claim 14 wherein the input register comprises a first-in-first-
- 2 out (FIFO) register.
- 1 18. The apparatus of claim 15 wherein the input register includes a
- 2 command/control signal input, wherein a command/control signal on the
- 3 command/control signal input is to indicate whether the multiphase encoded
- 4 waveform is a data structure or a command/control structure.
- 1 19. The apparatus of claim 13 wherein second logic further comprises impedance
- 2 matching circuitry to match impedance of the second logic to a bus differential
- 3 transmission line.

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1	20.	An apparatus,	comprising:
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- a device driver to receive a multiphase encoded waveform, having:
- an amplifier to receive differential signal levels representing the
- 4 multiphase encoded waveform from the bus and extract the multiphase encoded
- 5 waveform from the received differential signal levels; and
- a differential delay-lock loop coupled to stretch the received
- 7 multiphase encoded waveform timing to a predetermined length.
- 1 21. The apparatus of claim 20, further comprising a register coupled to check data
- 2 integrity of the received multiphase encoded waveform.
- 1 22. The apparatus of claim 21 wherein the register includes logic to extract data
- 2 bits from the received multiphase encoded waveform and to perform a probability
- 3 analysis to determine a likelihood of errors.
- 1 23. The network of claim 20 wherein the differential delay-lock loop includes logic
- 2 to align rising edges of the received multiphase encoded waveform to rising edges of a
- 3 transmitted multiphase encoded waveform.